

FIG. 1

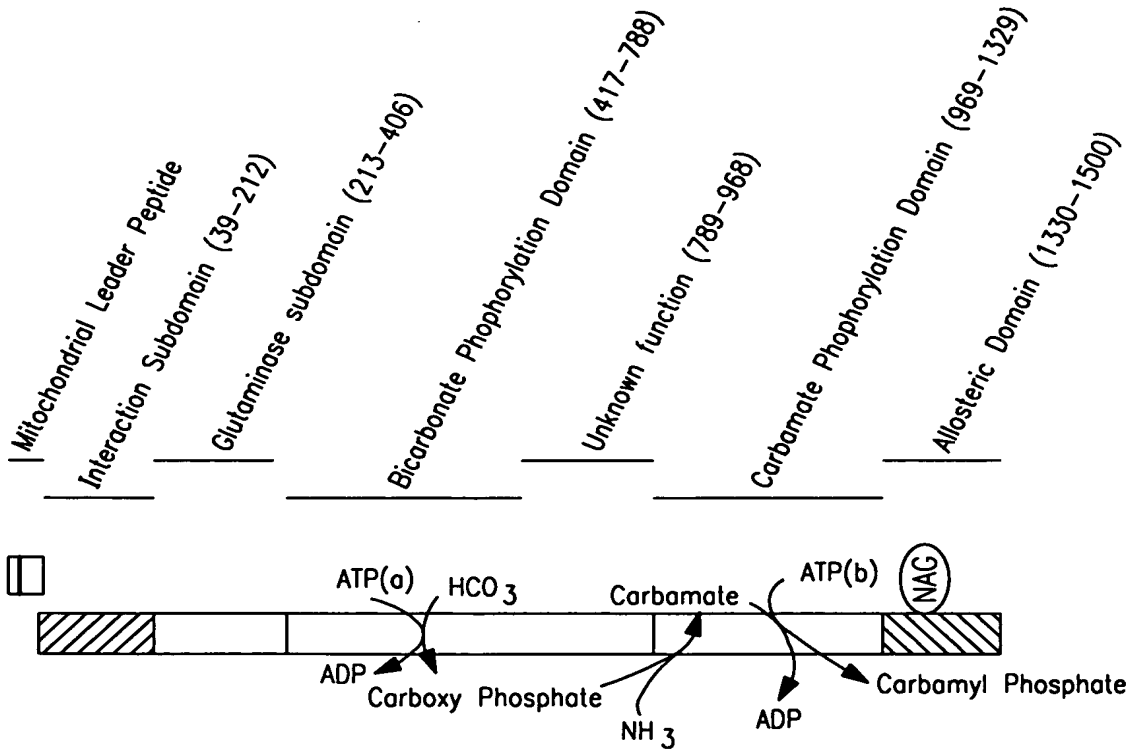


FIG. 2

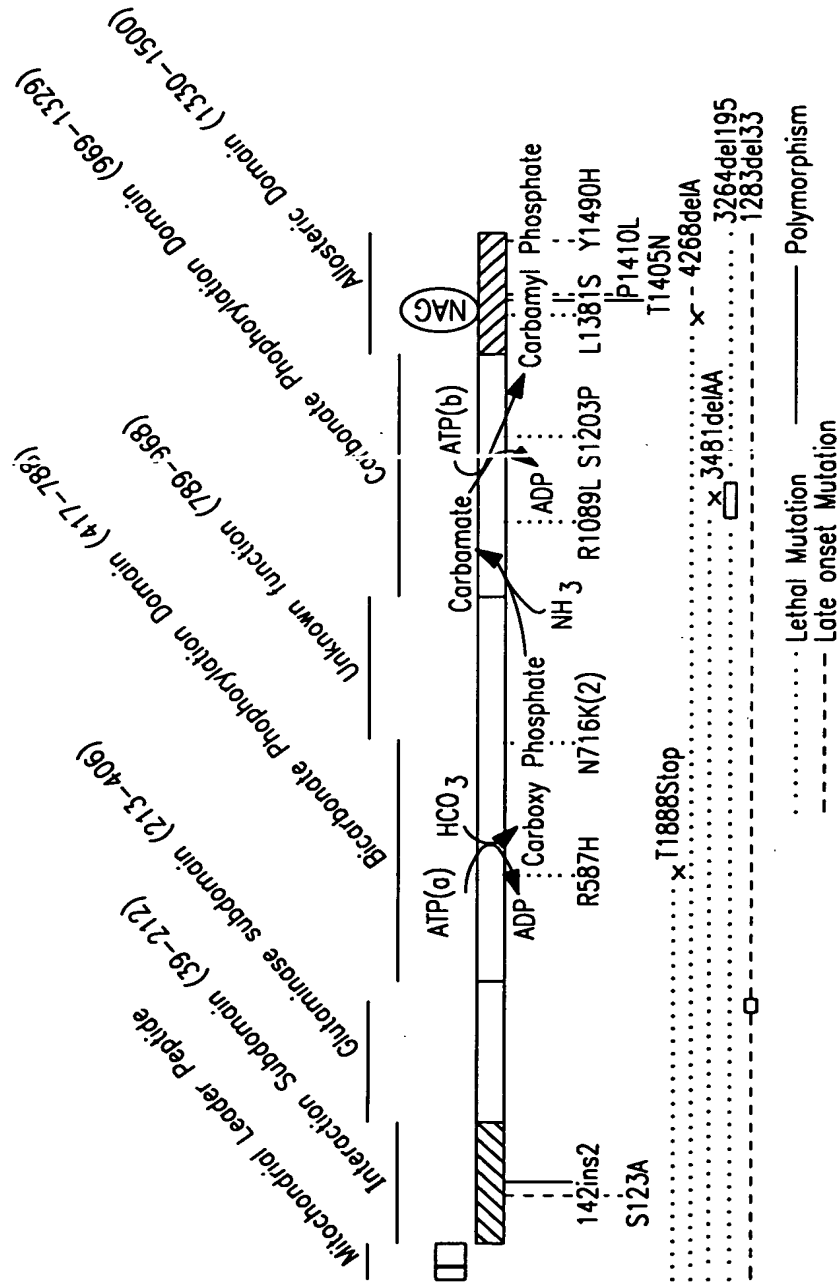


FIG. 3

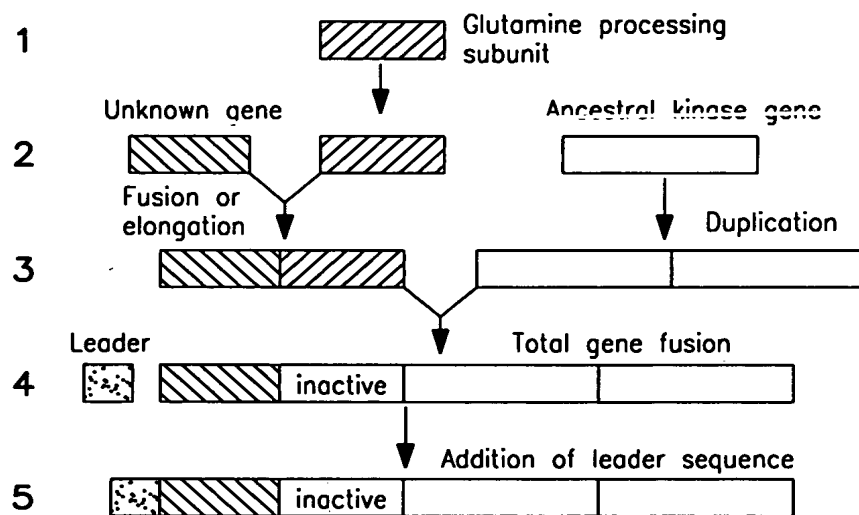


FIG. 4

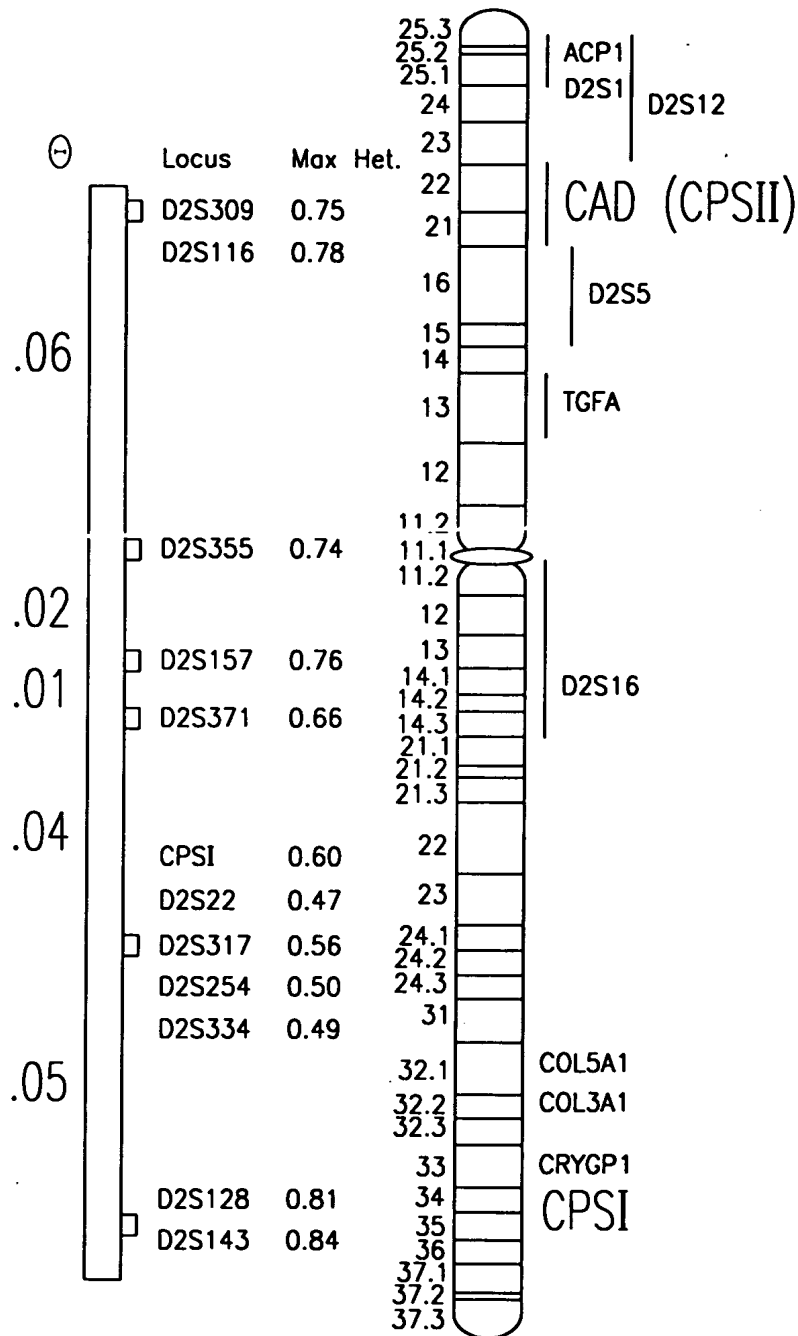


FIG. 5

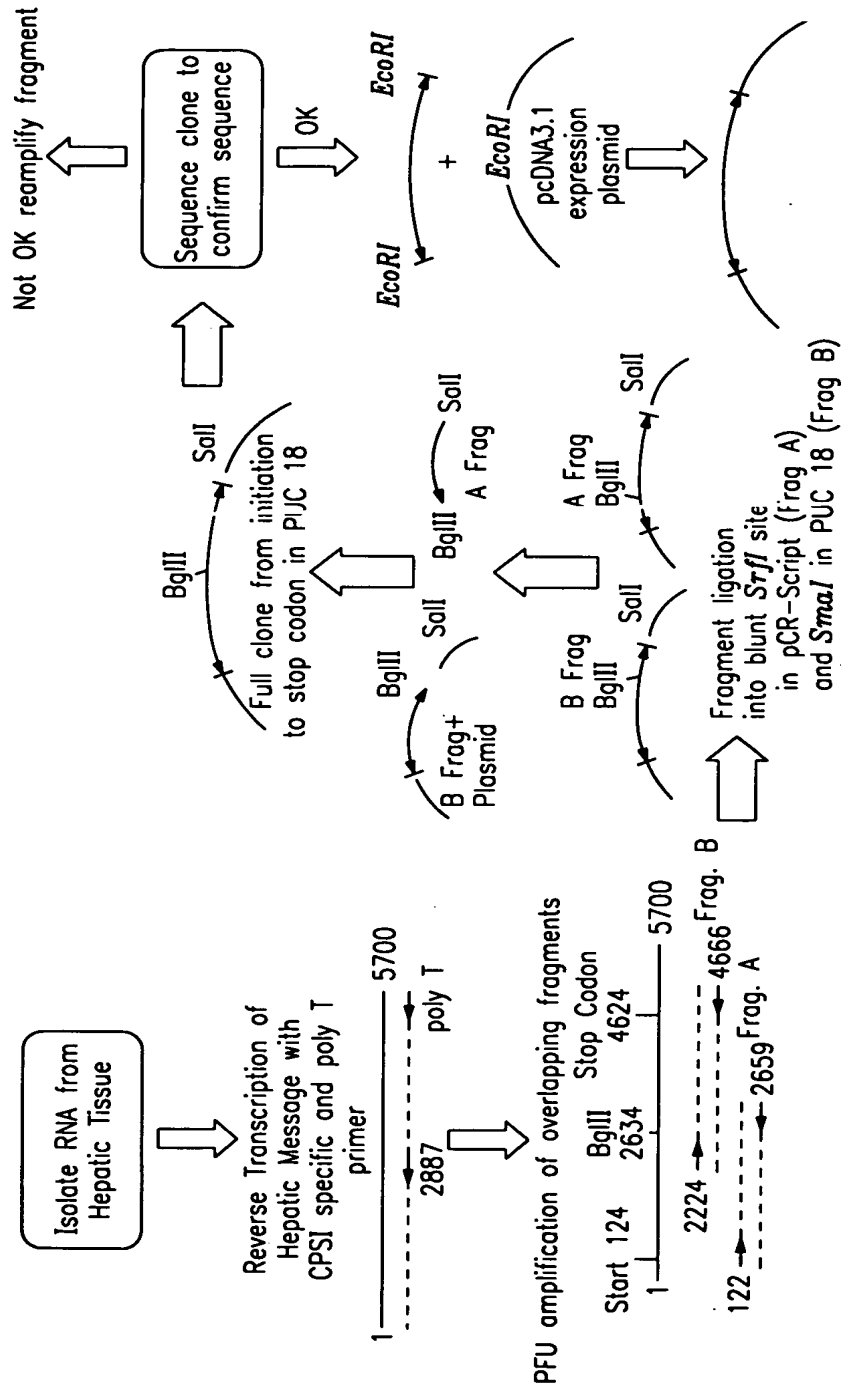


FIG. 6

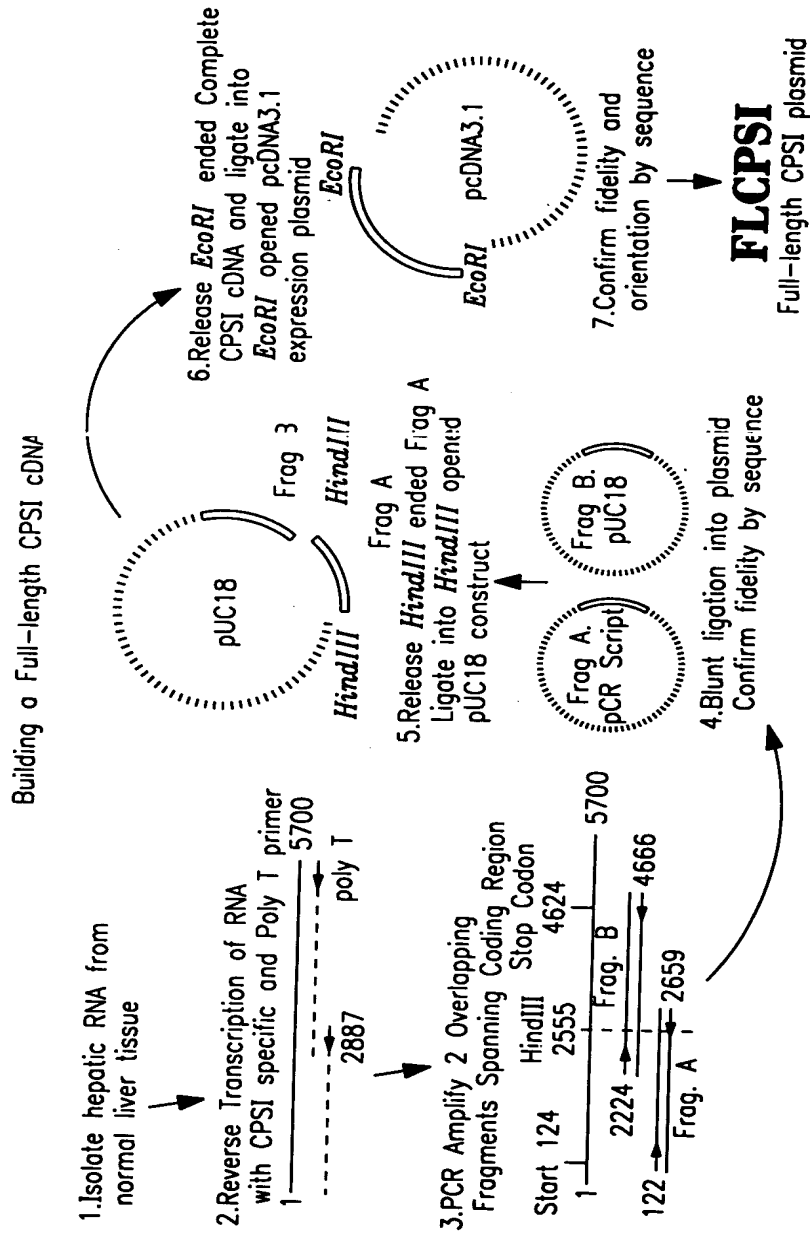


FIG. 7

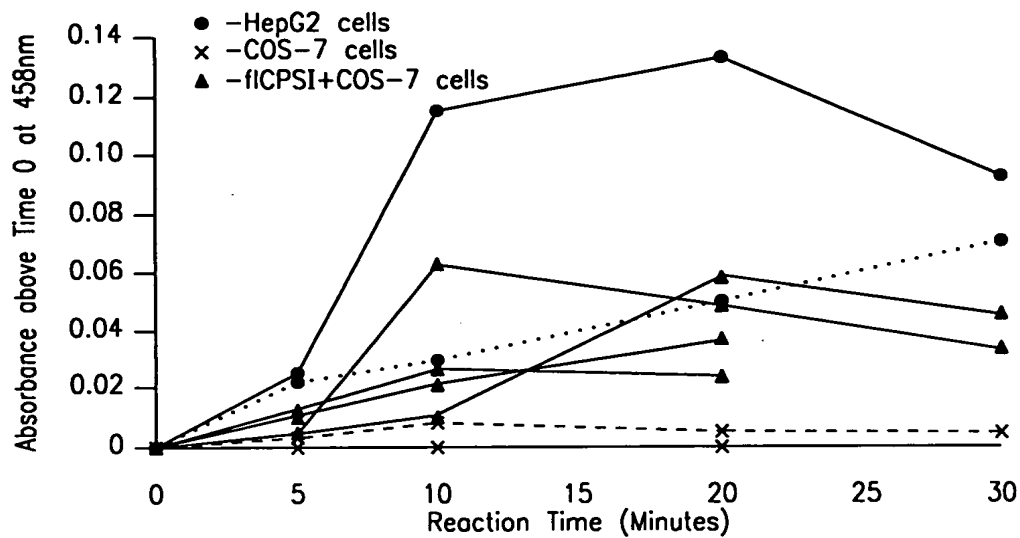


FIG. 8

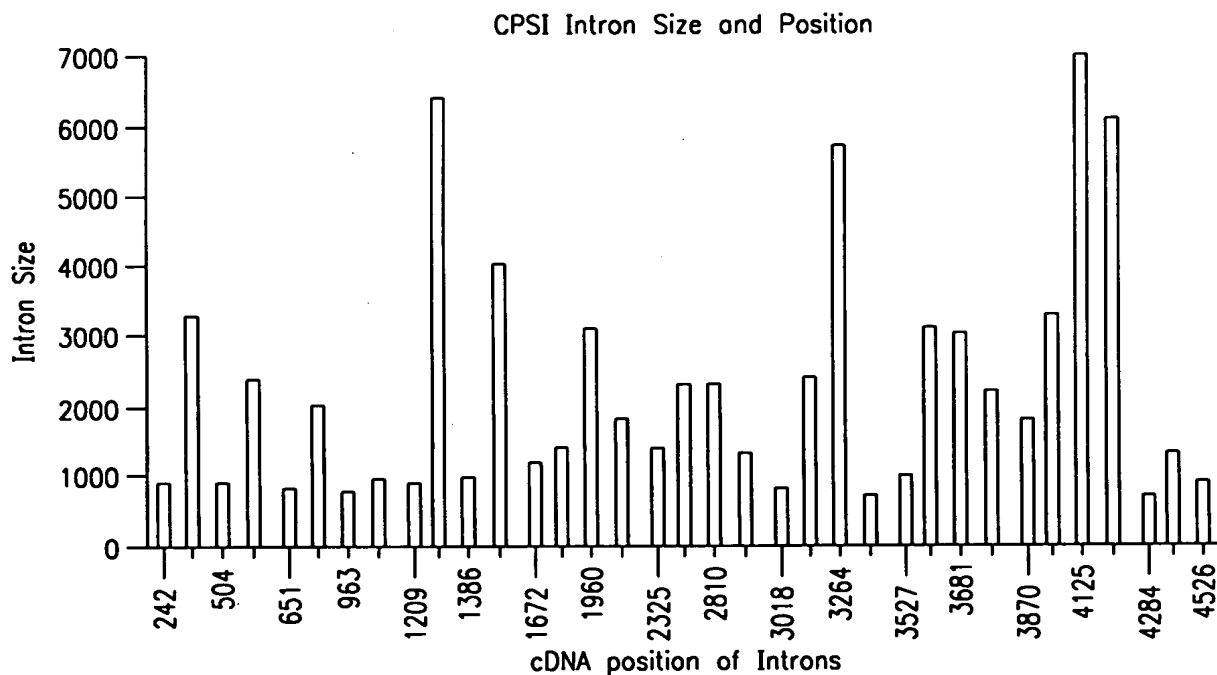


FIG. 9

1 ctactttctca tgttcagcaa tttcttcttc tttatgtttt aaattacatg ttccataaaa ataagaaat  
71  
cactgtgata cggtaattga ttttttcatt ttaaatgcag/(intron exon boundary)  
111 (U4295)  
CTGTTTGCCA CGGAAGCCAC ATCAGACTGG CTCACGCCA ACAATGTCC TGCCACCCCA GTGGCATGGC  
181  
CGTCTCAAGA AGGACAGAAT CCCAGCCTCT CTTCATCAG AAA/ (intron exon boundary)  
224 GTCGGAGA GAAGGTAGTC TT L(135a)  
gtaagaacta ggcatactgt tttctgaaat aatttagagg attaatcttg agaaccagta tatgaatatt  
294  
caccttgctt gattgcaagt cttttaaaac aaatttaaaa atgaacacat ttgtggatga ttgtcaagtt  
364 (L135b)  
tcactctcca tcactatgga atacataacg tcattgtgtac atggtgtatat gaaacgtgtt tcaaaatact  
434  
tcttagtaag gatactttcc ttgacggaaa caagtgcagac tatgangaat gtaatgcagc ac

Primer	Begins	Size	SEQ ID NO:
U4295	119	20	8
L135a	220	21	9
L135b	370	24	10
Spanner 1	agctgtttgccacggaagcc		6
Spanner 2	cccagcctctcttccatcagaaagtaag		7
Pairs			
U4295 - L135a	101 base fragment		
U4295 - L135b	251 base fragment		
Spanner1 - Spanner2	119 base fragment		

FIG. 10



CPSI T1405 SEQUENCE (SEQ ID NO:4)

MTRILTAFKV VRTLKTGFGF TNVTAHQKWK FSRPGIRLLS VKAQTAHIVL EDGTKMKGY  
FGHPSSVAGE VVFNLTGLGGY PEAITDPAYK GQILTMANPI IGNGGAPDTT ALDELGLSKY  
LESNGIKVSG LLVLDYSKDY NHWLATKSLG QWLQEEKVPA IYGVDTTRMLT KIIRDKGTML  
GKIEFEGQPV DFVDPNKQNL IAEVSTKDVK VYGKGNPTKV VAVDCGIKNN VIRLLVKRGA  
EVHLVPWNHD FTKMEYDGIL IAGGPGNPAL AEPLIQNVK ILES DRKEPL FGISTGNLIT  
GLAAGAKTYK MSMANRGQNN PVLNITNKQA FITAQNHGYA LDNTLPAGWK PLFVNVNDQT  
NEGIMHESKP FFAVQFHPEV TPGPIDTEYL FDSFFSLIKK GKATTITSVL PKPALVASRV  
EVSKVLILGS GGLSIGQAGE FDYSGSQAVK AMKEENVKTV LMNPNIASVQ TNEVGLKQAD  
TVYFLPITPQ FVTEVIKAEQ PDGLILGMGG QTALNCGVEL FKRGV LKEYG VKVLGTSVES  
IMATEDRQLF SDKLNEINEK IAPSFIVESI EDALKAADTI GYPVMIRSAY ALGGLGSGIC  
PNRETLMDLS TKAFAMTNQI LVEKSVTGWK EIEYEVVRDA DDNCVTVCNM ENVDAMGVHT  
GDSVVVAPAQ TLSNAEFQML RRTSINVVRH LGIVGECNIQ FALHPTSMEY CIIEVNARLS  
RSSALASKAT GYPLAFIAAK IALGIPLPEI KNVVSGKTS ACFEPSLDY MV TKIPRWDLDR  
FHGTSSRIGS SMKSVGEVMA IGRTFEESFQ KALRMCHPSI EGFTPRLPMN KEWPSNLDLR  
KELSEPSSTR IYAIKAIDD NMSLDEIEKL TYIDKWFLYK MRDILNMEKT LKGLNSESMT  
EETLKRAKEI GFSDKQISKC LGLTEAQTRE LRLKKNIHPW VKQIDTLAAE YPSVTNYLYV  
TYNGQEHDVN FDDHGMMVLG CGPYHIGSSV EFDWCAVSSI RTRLRQLGKKT VVNCNPETV  
STDFDEC DKL YFEELS LERI LDIYHQEACG GCIISVGGQI PNNLAVPLYK NGVKIMGTSP  
LQIDRAEDRS IFSAVLDELK VAQAPWKAVN TLNEALEFAK SVDYPCLLRP SYVLSGSAMN  
VWFSEDEMCK FLEEATRV SQ EHPVVLTKFV EGAREVEMDA VGKDGRVISH AISEHVEDAG  
VHSGDATLML PTQTISQGAI EKVKDATR KI AKAF AISGPF NVQFLVK GND VLVIECNLRA  
SRSFPFVSKT LGVDFIDVAT KVMIGENVDE KHLPTLDHPI IPADYVAIKA PMFSWPRLRD  
ADPILRCEMA STGEVACFGE GIHTAFLKAM LSTGFKIPQK GILIGIQSF RPRFLGVAEQ  
LHNEGFKLFA TEATSDWLNA NNVPATPVAV PSQEGQNPSL SSIRKLIRDG SIDLVINLPN  
NNTKFVHDNY VIRRTAVDSG IPLL TNFQVT KLFAEAVQKS RKVDSKSLFH YRQYSAGKAA  
X

FIG. 11

CPSI N1405 SEQUENCE (SEQ ID NO:2)

MTRILTAFKV VRTLKTGFGF TNVTAHQKWK FSRPGIRLLS VKAQTAHIVL EDGTKMKGYS  
FGHPSSVAGE VVFNLTGLGGY PEAITDPAYK GQILTMANPI IGNGGAPDTT ALDELGLSKY  
LESNGIKVSG LLVLDYSKDY NHWLATKSLG QWLQEEKVPA IYGVDTRMLT KIIRDKGTML  
GKIEFEGQPV DFVDPNKQNL IAEVSTKDVK VYGKGNPTKV VAVDCGIKNN VIRLLVKRGA  
EVHLVPWNHD FTKMEYDGIL IAGGPGNPAL AEPLIQNVRK ILES DRKEPL FGISTGNLIT  
GLAAGAKTYK MSMANRGQNQ PVLNITNKQA FITAQNHGYA LDNTLPAGWK PLFVNVNDQT  
NEGIMHESKP FFAVQFHPEV TPGPIDTEYL FDSFFSLIKK GKATTITSVL PKPALVASRV  
EVSKVLILGS GGLSIGQACE FDYSGGSAVK AMKEENVKTV LMNPNIASVQ TNEVGLKQAD  
TVYFLPITPQ FVTEVIKAEQ PDGLILGMGG QTALNCGVEL FKRGVLKEYG VKVLGTSVES  
IMATEDRQLF SDKLNEINEK IAPSFIVESI EDALKAADTI GYPVMIRSAY ALGGLGSGIC  
PNRETLMDLS TKAFAMTNQI LVEKSVTGWK EIEYEVVRDA DDNCVTVCNM ENVDAMGVHT  
GDSVVVAPAQ TLSNAEFQML RRTSINVVRH LGIVGECNIQ FALHPTSM EY CIIEVNARLS  
RSSALASKAT GYPLAFIAAK IALGIPLPEI KNVVSGKTS A CFEP SLDYMV TKIPRWDLDR  
FHGTSSRIGS SMKSVGEVMA IGRTFEESFQ KALRMCHPSI EGFTPRLPMN KEWPSNLDLR  
KELSEPSSTR IYAIKAIDD NMSLDEIEKL TYIDKWFLYK MRDILNMEKT LKGLNSESMT  
EETLKRAKEI GFSDKQISKC LGLTEAQTRE LRLKKNIHPW VKQIDTLAAE YPSVTNYLYV  
TYNGQEHDVN FDDHGMMVLG CGPYHIGSSV EFDWCAVSSI RTLRQLGKKT VVNCNPETV  
STDFDEC DKL YFEELSLERI LDIYHQEACG GCIISVGGQI PNNLAVPLYK NGVKIMGTSP  
LQIDRAEDRS IFSAVLDELK VAQAPWKAVN TLNEALEFAK SVDYPCLLRP SYVLSGSAMN  
VWFSEDEMCK FLEEATRV SQ EHPVVLTKFV EGAREVEMDA VGKDGRVISH AISEHVEDAG  
VHSGDATLML PTQTISQGAI EKVKDATRKI AKAF AISGPF NVQFLVKGND VLVIECNLRA  
SRSFPFVSKT LGVDFIDVAT KVMIGENVDE KHLPTLDHPI IPADYVAIKA PMFSWPRLRD  
ADPILRCEMA STGEVACFGE GIHTAFLKAM LSTGFKIPQK GILIGIQQSF RPRFLGVAEQ  
LHNEGFKLFA TEATSDWLNA NNVPANPVAW PSQEGQNPSL SSIRKLIRDG SIDLVINLPN  
NNTKFVHDNY VIRRTAVDSG IPLL TNFQVT KLFAEAVQKS RKVDSKSLFH YRQYSAGKAA  
X

FIG. 12

FIGURE 13

